

Product datasheet for **RG217611**

HMX1 (NM_018942) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMX1 (NM_018942) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HMX1
Synonyms:	H6; NKX5-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217611 representing NM_018942 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCTGACGAGCTGACGGAGCCCGGGCGGCCACGCCGGCCCGCGCCTCCTCCTTCATCGAGAACC
 TGCTGGCGGCCGAGGCCAAGGGCGCAGGGCGGACCCAGGGCGACGGCAGCCGGGAGGACGAGGAGGAGG
 ACGACGACGACCCGAAGACGAGGACGCCGAGCAGGCCGGCGGCGACGGCTACAGCGGCGGCGACAGTTG
 CTCGGGGCACCGGGCCCGGGGAGGCGGGCCGTGCTGCTCGGGCGGCGCGCTGGGCCTCGGTC
 CTCGGCCGCCCCCGGTCCCGGGCGCCCTTCGCTCTGGGCTGCGGAGGCGCAGGCCGTGGTACCCACG
 GCGCACGGTGGCTATGGAGGCGGCCTCAGTCCTGACACCAGCGACCGGGACTACCCGGAGACGGGCGAG
 GAGATGGGCCGTGCGGAGGGCGCCTGGCCGCGAGGCCCGGGCGGAGCGGTGCAGCGGGAGGCAGCGGAG
 CTGGCGGCGCGTGGCCCGCGCGCCGCGCAGGAGGAGGCTCGGAGCTGGCCGAGGTCCCTGCGCGCGCTGG
 GGAGACACGCGGCGGCGTTGGCGTGGGCGGCGGCCGAAAGAAGAAGACGCGCACAGTCTTCTCCCGCAGC
 CAGGTCTTCCAGCTGGAATCCACCTTCGACCTGAAGCGCTACCTGAGCACGGCCGAGCGCGCCGGCTGG
 CCGCCTCCCTGCAGCTCACCGAGACGAGGTTAAGATCTGGTTCAGAACCGCCGAACAAGTGAAGCG
 GCACGTGGCAGCCGAGCTGGAGGCGGCCAGCCTGTCCCGCCGGGAGCGCACGCTGGTCCGCGTGCCGG
 TGCTCTACCACGAAAGCCCCCGGCCGCGGCCGCGCTGGGCCCGGCCACCCCTGCCCTTCCCGCTGGC
 CCGCCGGCCCGCGCCGCCCCACCGCTGCTCGGCTTCTCGGGGCCCTCGCCTACCCGCTGGCCGCGCTTC
 CCGGCCGCGCCTCCGTGCCCTTCTGCGGGCGCAGATGCCTGGCCTGGTGTGAGCCCGCCTGCCGGG
 CCTCTCCCCACGACCCTGTGGACCTGTGTGGACGCGGTTAGCGGCAGGCGCAGGGCTCAGGGGCGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


[View online »](#)

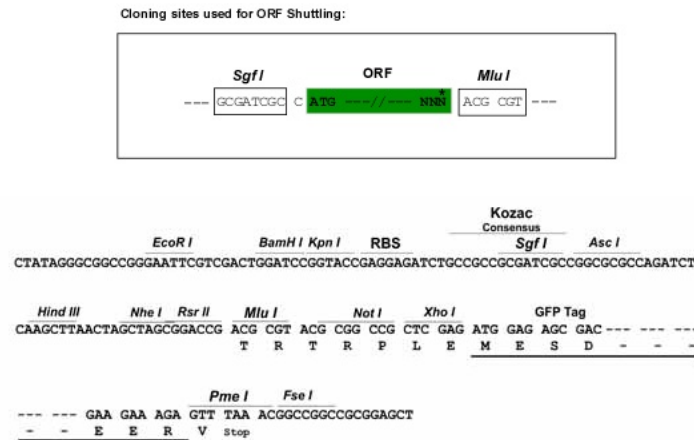
Protein Sequence: >RG217611 representing NM_018942
 Red=Cloning site Green=Tags(s)

MPDELTEPGRATPARASSFLIENLLAAEAKGAGRDPGRRQPGGRGGGRRRPRRRGRAGRRRLQRRQL
 LAGTGPGEARAVPARAGALGLGPRPPPGPPFALGCGGAGRWYPRAHGGYGGGLSPDTSDDSPETGE
 EMGRAEGAWPRGPRSGAAGSGAGGAWPGRRHGGSELAEPVAAAGETRGGVGVGGGRKKKTRTVFSRS
 QVFQLESTFDLKRYLSTAERAGLAASLQLTETQVKIWFQNRNRKWKRHVAAELEAASLSPGHAWSACR
 CSTTKAPRRPPLGPRPPCPSRWAPGRRPHRCSASPGSPTRWPPSRPPPPCPFCGRRCLAWCEPRLPG
 PLPTTLWTCVDARSAAGAGLRGR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018942

ORF Size: 1119 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_018942.1](#), [NP_061815.1](#)

RefSeq Size: 1884 bp

RefSeq ORF: 1047 bp

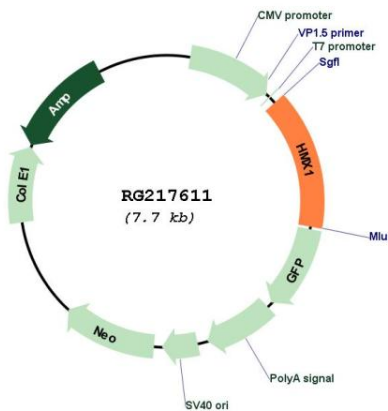
Locus ID: 3166

UniProt ID: [Q9NP08](#)

Cytogenetics: 4p16.1

Gene Summary: This gene encodes a transcription factor that belongs to the H6 family of homeobox proteins. This protein can bind a 5'-CAAG-3' core DNA sequence, and it is involved in the development of craniofacial structures. Mutations in this gene cause oculoauricular syndrome, a disorder of the eye and external ear. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG217611